

JC03 Rec'd PCT/PTO 23 MAY 2005

Attorney Docket No. 3477-110

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: O'Dowd et al.

Confirmation No. 3131

Application No.: 10/509,787

Group Art Unit: 1653

I.A. Filing Date: April 11, 2003

For: *METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING COMPOUNDS*

Date: May 23, 2005

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

Sir:

In response to the March 21, 2005 Notification of Missing Requirements under 35 U.S.C. §371 in the United States Designated/Elected Office issued regarding the above-identified patent application, enclosed are:

- 1) an executed Declaration and Power of Attorney document (4 pages);
- 2) a copy of the Notification;
- 3) Amendment to Enter the Corrected Sequence Listing;
- 4) Substitute Paper copy of the Sequence Listing;
- 5) Substitute Sequence Listing on diskette;
- 6) a check in the amount of **\$65.00** as payment of the surcharge.

Applicant asserts small entity status for this application in accordance with 37 C.F.R. 1.27. The amount enclosed is believed to be correct. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No 50-0220.

Respectfully submitted,

05/26/2005 GFREY1 00000067 10509787

01 FC:2617

65.00 02


Karen A. Magri

Registration No. 41,965

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR 1.10

"Express Mail" mailing label number: EV674755711US

Date of Deposit: May 23, 2005

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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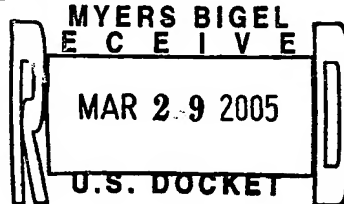


UNITED STATES PATENT AND TRADEMARK OFFICE

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 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/509,787	Brian O'Dowd	3477-110

20792
 MYERS BIGEL SIBLEY & SAJOVEC
 PO BOX 37428
 RALEIGH, NC 27627



INTERNATIONAL APPLICATION NO.	
PCT/CA03/00542	
LA. FILING DATE	PRIORITY DATE
04/11/2003	04/12/2002

CONFIRMATION NO. 3131
 371 FORMALITIES LETTER



OC000000015148181

Date Mailed: 03/21/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 09/30/2004
- Copy of the International Search Report filed on 09/30/2004
- Copy of IPE Report filed on 09/30/2004
- Preliminary Amendments filed on 09/30/2004
- Biochemical Sequence Diskette filed on 09/30/2004
- Biochemical Sequence Listing filed on 09/30/2004
- U.S. Basic National Fees filed on 09/30/2004
- Priority Documents filed on 09/30/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$65 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$65 for a Small Entity:

- \$65 Late oath or declaration Surcharge.

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - Does not comply, corrected diskette needed (see attachment)
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

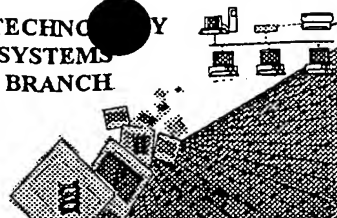
*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/509,787	PCT/CA03/00542	3477-110



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/509,787
Source: Per/10
Date Processed by STIC: 10/8/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/509,787

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,787

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

*Does Not Comply
Corrected Diskette Needed*

pg 2-6

3 <110> APPLICANT: O'DOWD, BRIAN F.

4 GEORGE, SUSAN R.

6 <120> TITLE OF INVENTION: METHOD OF IDENTIFYING TRANSMEMBRANE PROTEIN-INTERACTING

COMPOUNDS

8 <130> FILE REFERENCE: 3477-110

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/509,787

C--> 11 <141> CURRENT FILING DATE: 2004-09-30

13 <150> PRIOR APPLICATION NUMBER: US 60/371,704

14 <151> PRIOR FILING DATE: 2002-04-12

16 <150> PRIOR APPLICATION NUMBER: US 60/442,556

17 <151> PRIOR FILING DATE: 2003-01-27

19 <150> PRIOR APPLICATION NUMBER: US 60/422,891

20 <151> PRIOR FILING DATE: 2002-11-01

22 <150> PRIOR APPLICATION NUMBER: US 60/387,570

23 <151> PRIOR FILING DATE: 2002-06-12

25 <150> PRIOR APPLICATION NUMBER: US 60/379,419

26 <151> PRIOR FILING DATE: 2002-05-13

28 <160> NUMBER OF SEQ ID NOS: 158

30 <170> SOFTWARE: PatentIn version 3.1

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33 <211> LENGTH: 49

34 <212> TYPE: DNA

35 <213> ORGANISM: Artificial sequence

37 <220> FEATURE:

38 <223> OTHER INFORMATION: Primer

40 <400> SEQUENCE: 1

41 gaggactctg aacaccgaat tcgccgccat ggacgggact gggctggtg

49

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47 <213> ORGANISM: Artificial sequence

49 <220> FEATURE:

50 <223> OTHER INFORMATION: Primer

52 <400> SEQUENCE: 2

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45

56 <210> SEQ ID NO: 3

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58 <212> TYPE: DNA

59 <213> ORGANISM: Artificial sequence

61 <220> FEATURE:

62 <223> OTHER INFORMATION: Primer

64 <400> SEQUENCE: 3

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51

68 <210> SEQ ID NO: 4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

TIME: 11:46:11

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Output Set: N:\CRF4\10082004\J509787.raw

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71 <213> ORGANISM: Artificial sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Primer
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82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Peptide insufficient explanation of Artificial Sequence
88 <400> SEQUENCE: 5 (give source of genetic material, see item 11 on Euro summary sheet)
90 Asn Pro Ile Ile Tyr Ala Phe Asn Ala Asp Phe Arg Lys Ala Phe Ser
91 1 5 10 15
93 Thr Leu Leu
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 19
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Peptide same error
105 <400> SEQUENCE: 6
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108 1 5 10 15
110 Thr Leu Leu
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117 <213> ORGANISM: Artificial sequence
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137 1 5
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146 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,787

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

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152 gcaaggactc tgaacacctc tgcc 84
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158 <213> ORGANISM: Artificial sequence
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161 <223> OTHER INFORMATION: Primer
163 <400> SEQUENCE: 10
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169 <212> TYPE: PRT
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173 <223> OTHER INFORMATION: Peptide
175 <400> SEQUENCE: 11
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194 Ser Ala Met Asp Gly Thr Gly Leu Val Val
195 20 25
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200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Primer
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212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Primer
218 <400> SEQUENCE: 14
219 gttttctcttt tgaacttctt cttaaaagaa cttttcc 36
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/509,787

DATE: 10/08/2004

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

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235 Leu
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241 <212> TYPE: PRT
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244 <220> FEATURE:
245 <223> OTHER INFORMATION: Peptide
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262 <223> OTHER INFORMATION: Primer
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274 <223> OTHER INFORMATION: Primer
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285 <220> FEATURE:
286 <223> OTHER INFORMATION: Peptide
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291 1          5          10          15
293 Leu Ile
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298 <211> LENGTH: 18
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial sequence

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37

39

RAW SEQUENCE LISTING

DATE: 10/08/2004

PATENT APPLICATION: US/10/509,787

TIME: 11:46:11

Input Set : A:\3347-110 Sequence Listing CRF.TXT

Output Set: N:\CRF4\10082004\J509787.raw

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 303 <223> OTHER INFORMATION: Peptide
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 308 1 5 10 15
 310 Leu Ile
 314 <210> SEQ ID NO: 21
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 316 <212> TYPE: DNA
 317 <213> ORGANISM: Artificial sequence
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 320 <223> OTHER INFORMATION: Primer
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 329 <213> ORGANISM: Artificial sequence
 331 <220> FEATURE:
 332 <223> OTHER INFORMATION: Primer
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 338 <210> SEQ ID NO: 23
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 340 <212> TYPE: PRT
 341 <213> ORGANISM: Artificial sequence
 343 <220> FEATURE:
 344 <223> OTHER INFORMATION: Peptide
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 349 1 5 10 15
 351 Thr Asn
 355 <210> SEQ ID NO: 24
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 357 <212> TYPE: PRT
 358 <213> ORGANISM: Artificial sequence
 360 <220> FEATURE:
 361 <223> OTHER INFORMATION: Peptide
 363 <400> SEQUENCE: 24
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 366 1 5 10 15
 368 Thr Asn
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 373 <211> LENGTH: 44
 374 <212> TYPE: DNA
 375 <213> ORGANISM: Artificial sequence
 377 <220> FEATURE:
 378 <223> OTHER INFORMATION: Primer
 380 <400> SEQUENCE: 25

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.